

AMENDMENTS TO THE ABSTRACT

Please amend the Abstract as follows. No new matter has been added.

A method for manufacturing magnetic field detection devices ~~is described, said method~~ comprises ing the operations of manufacturing a magneto-resistive element ~~(10; 20)~~ comprising regions with metallic conduction ~~(13; 23)~~ and regions with semi-conductive conduction ~~(11; 31)~~. ~~Said~~ The method comprises the following operations: ~~—forming metallic nano-particles (37) to~~ obtain ~~said~~ regions with metallic conduction ~~(13; 23)~~; ~~—providing a semiconductor substrate~~ ~~(31); and—~~ applying ~~said~~ metallic nano-particles ~~(37)~~ to ~~said~~ the porous semiconductor substrate ~~(31)~~ to obtain a disordered mesoscopic structure. AA magnetic device ~~is also described,~~ comprises ing a spin valve, which, ~~said spin valve (110)~~ comprises ing a plurality of layers ~~(111, 112, 113, 114, 115, 116, 117)~~ arranged in a stack which in turn comprises at least one free magnetic layer ~~(111)~~ able to be associated to a temporary magnetisation (MT), a spacer layer ~~(133)~~ and a permanent magnetic layer ~~(112)~~ associated to a permanent magnetisation (MP). The spacer element ~~(133)~~ is obtained by means of a mesoscopic structure of nanoparticles in a metallic matrix produced in accordance with the inventive method for manufacturing magneto-resistive elements ~~of the invention~~.